RAW SEQUENCE LISTING

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RAW SEQUENCE LISTING DATE: 08/22/2006
PATENT APPLICATION: US/10/573,821A TIME: 10:43:06

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3 <110> APPLICANT: OKUNO, KAZUAKI
        YABUTA, MASAYUKI
 6 <120> TITLE OF INVENTION: POLYPEPTIDE CLEAVAGE METHOD USING OMPT PROTEASE VARIANT
 8 <130> FILE REFERENCE: 47259.5001/00US
10 <140> CURRENT APPLICATION NUMBER: 10/573,821A
11 <141> CURRENT FILING DATE: 2006-03-28
13 <150> PRIOR APPLICATION NUMBER: PCT/JP04/014704
14 <151> PRIOR FILING DATE: 2004-09-29
16 <150> PRIOR APPLICATION NUMBER: JP 2003-342183
17 <151> PRIOR FILING DATE: 2003-09-30
19 <160> NUMBER OF SEQ ID NOS: 38
21 <170> SOFTWARE: PatentIn Ver. 3.3
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39 Pro Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp Arg Pro
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42 Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe
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45 Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Asp Leu Pro Glu Ala
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48 Asp Thr Val Val Val Pro Asp Ser Ser Asn Trp Gln Met His Gly Tyr
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51 Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro Ile Thr Val Asn Pro
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54 Pro Phe Val Pro Thr Glu Pro His His His Pro Gly Gly Arg Gln
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57 Met His Gly Tyr Asp Ala Glu Leu Arg Leu Tyr Arg Arg His His Gly
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60 Ser Gly Ser Pro Tyr Arg His Pro Arg His Ala Glu Gly Thr Phe Thr
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63 Ser Asp Val Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile
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66 Ala Trp Leu Val Lys Gly Arg Gly
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89 Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe
92 Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Asp Leu Pro Glu Ala
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95 Asp Thr Val Val Val Pro Asp Ser Ser Asn Trp Gln Met His Gly Tyr
98 Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro Ile Thr Val Asn Pro
               100
                                   105
101 Pro Phe Val Pro Thr Glu Pro His His His Pro Gly Gly Arg Gln
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                                120
104 Met His Ala Ala Ala Ala Ala Ala Ala Ala Arg Arg Ala Ala Ala
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107 Ala Gly Ser Pro Tyr Arg His Pro Arg His Ala Glu Gly Thr Phe Thr
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139 Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Asp Leu Pro Glu Ala 142 Asp Thr Val Val Val Pro Asp Ser Ser Asn Trp Gln Met His Gly Tyr 85 145 Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro Ile Thr Val Asn Pro 105 148 Pro Phe Val Pro Thr Glu Pro His His His Pro Gly Gly Arg Gln 115 120 151 Met His Ala Ala Ala Ala Ala Ala Ala Ala Arg Arg Ala Arg Ala 135 154 Ala Gly Ser Pro Tyr Arg His Pro Arg His Ala Glu Gly Thr Phe Thr 150 155 157 Ser Asp Val Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile 165 160 Ala Trp Leu Val Lys Gly Arg Gly 161 180 164 <210> SEQ ID NO: 4 165 <211> LENGTH: 184 166 <212> TYPE: PRT 167 <213> ORGANISM: Artificial Sequence 169 <220> FEATURE: 170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic protein sequence 173 <400> SEQUENCE: 4 174 Met Thr Met Ile Thr Asp Ser Leu Ala Val Leu Gln Arg Lys Asp 177 Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro 20 25 180 Pro Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp Arg Pro 183 Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe 55 186 Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Asp Leu Pro Glu Ala 187 65 75 70 189 Asp Thr Val Val Val Pro Asp Ser Ser Asn Trp Gln Met His Gly Tyr 85 90 192 Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro Ile Thr Val Asn Pro 105 195 Pro Phe Val Pro Thr Glu Pro His His His Pro Gly Gly Arg Gln 115 120 198 Met His Ala Ala Ala Ala Ala Ala Ala Arg Arg Arg Ala Arg Ala 130 135 201 Ala Gly Ser Pro Tyr Arg His Pro Arg His Ala Glu Gly Thr Phe Thr 204 Ser Asp Val Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile 165 170 207 Ala Trp Leu Val Lys Gly Arg Gly 211 <210> SEQ ID NO: 5

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105 284 286 Pro Phe Val Pro Thr Glu Pro His His His Pro Gly Gly Arq Gln 120 289 Met His Ala Ala Ala Ala Ala Ala Ala Arg Arg Arg Ala Arg Phe 135 292 Val Pro Ile Phe Thr Tyr Gly Glu Leu Gln Arg Met Gln Glu Lys Glu 150 155 295 Arg Asn Lys Gly Gln 296 299 <210> SEQ ID NO: 7 300 <211> LENGTH: 167 301 <212> TYPE: PRT 302 <213> ORGANISM: Artificial Sequence 304 <220> FEATURE: 305 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 306 protein sequence 308 <400> SEQUENCE: 7 309 Met Thr Met Ile Thr Asp Ser Leu Ala Val Leu Gln Arg Lys Asp 310 1 10 312 Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro 315 Pro Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp Arg Pro 40 318 Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe 321 Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Asp Leu Pro Glu Ala 322 65 70 75 324 Asp Thr Val Val Val Pro Asp Ser Ser Asn Trp Gln Met His Gly Tyr 85 327 Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro Ile Thr Val Asn Pro 105 330 Pro Phe Val Pro Thr Glu Pro His His His Pro Gly Gly Arg Gln 331 115 120 333 Met His Ala Ala Ala Ala Ala Ala Ala Arg Arg Arg Ala Arg Ser 135 140 336 Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys Arg 150 155 339 Arg Pro Val Lys Val Tyr Pro 340 343 <210> SEQ ID NO: 8 344 <211> LENGTH: 176 345 <212> TYPE: PRT 346 <213> ORGANISM: Artificial Sequence 348 <220> FEATURE: 349 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 350 protein sequence 352 <400> SEQUENCE: 8 353 Met Thr Met Ile Thr Asp Ser Leu Ala Val Leu Gln Arg Lys Asp 354

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